



MEDICAL DEVICE WITH POSITION SENSOR HAVING ACCURACY AT HIGH TEMPERATURES

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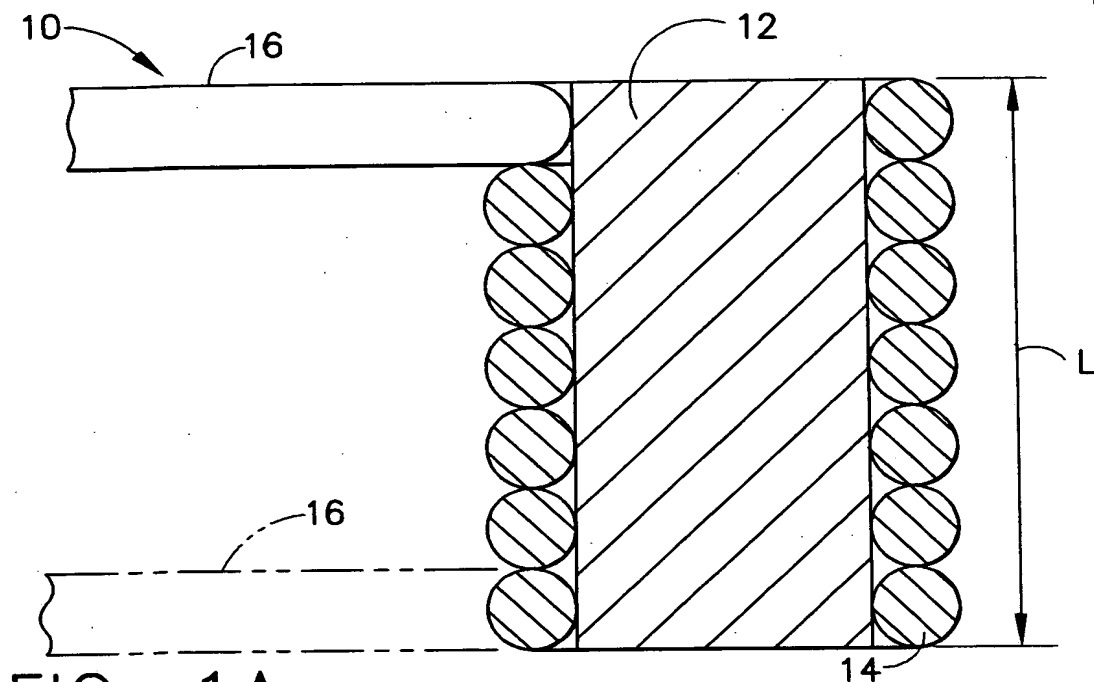


FIG. 1A

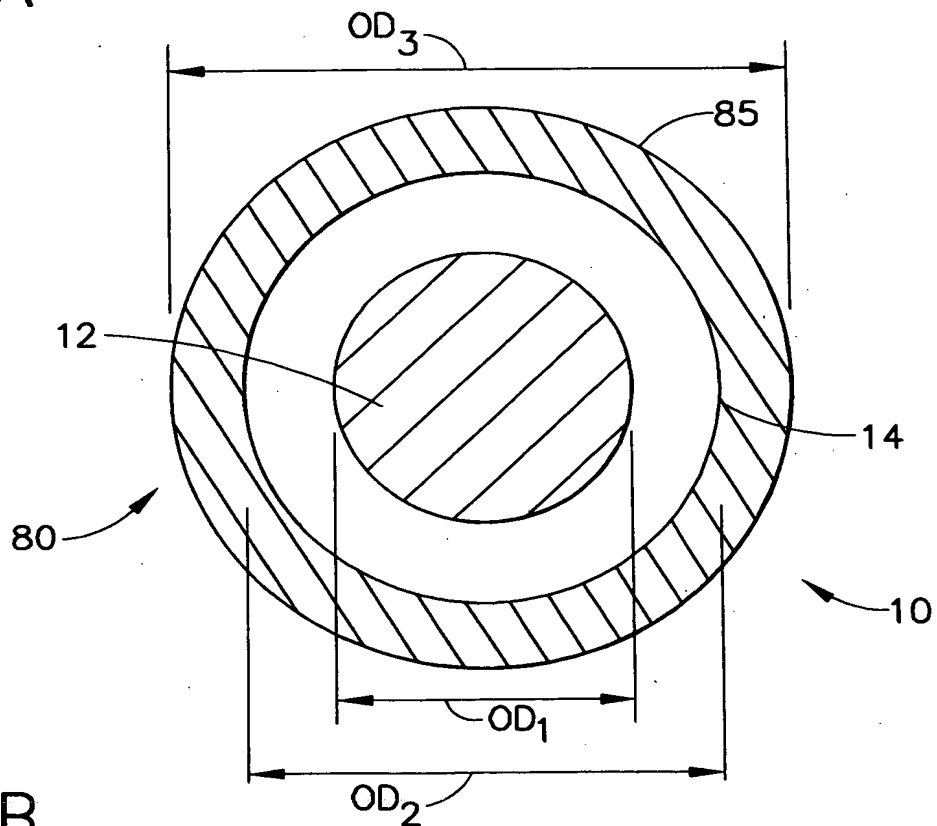


FIG. 1B

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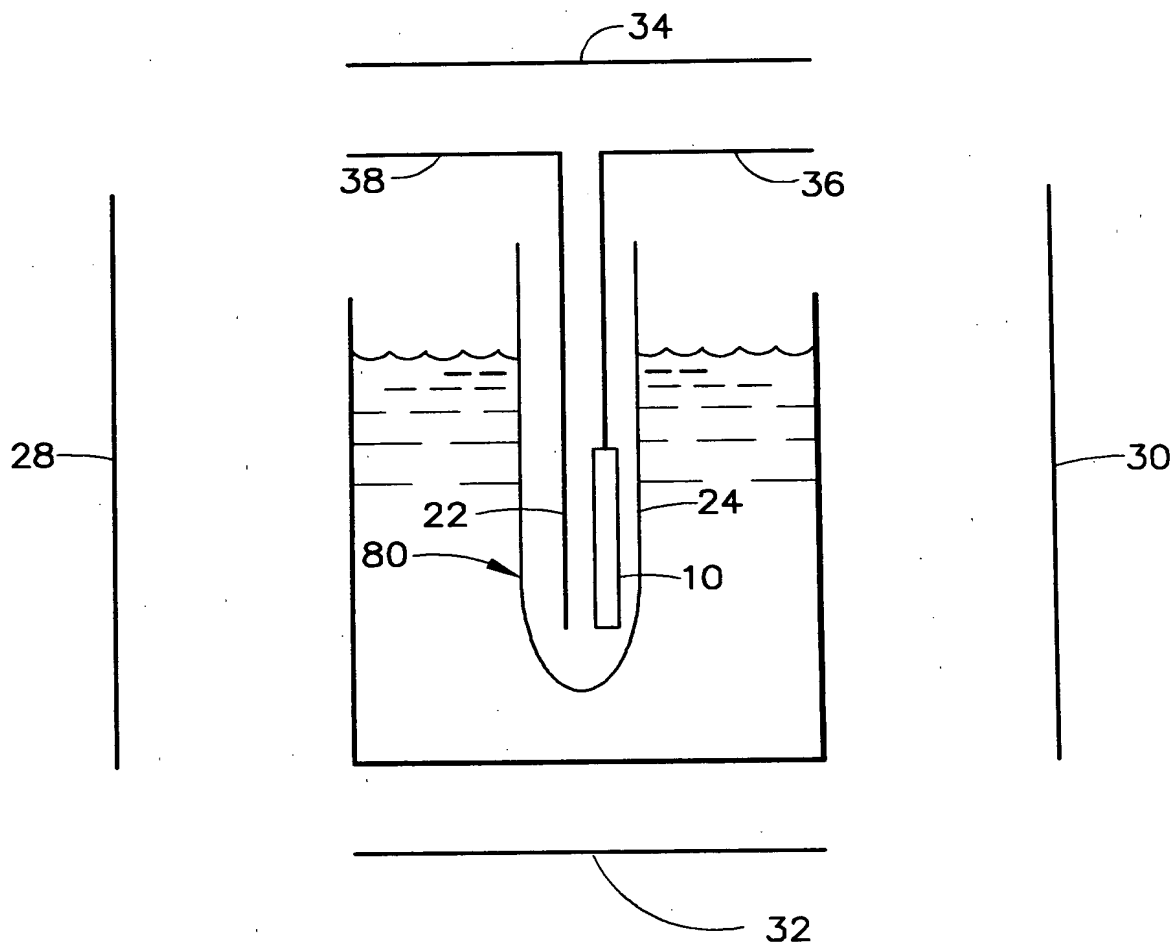


FIG. 2

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REGRESSING HEAT EXPERIMENT SENSOR 2

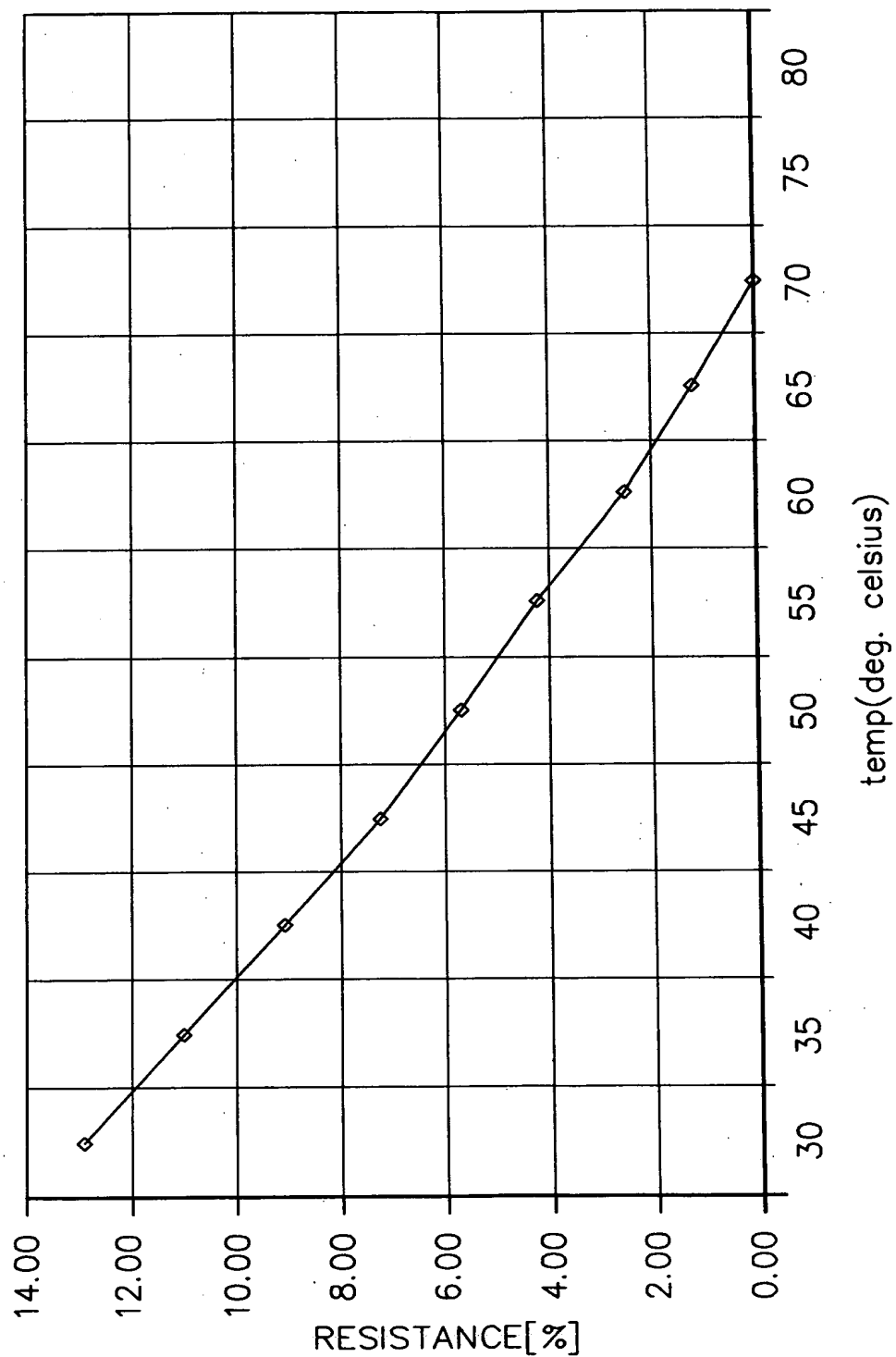


FIG. 3A

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REGRESSING HEAT EXPERIMENT SENSOR 2

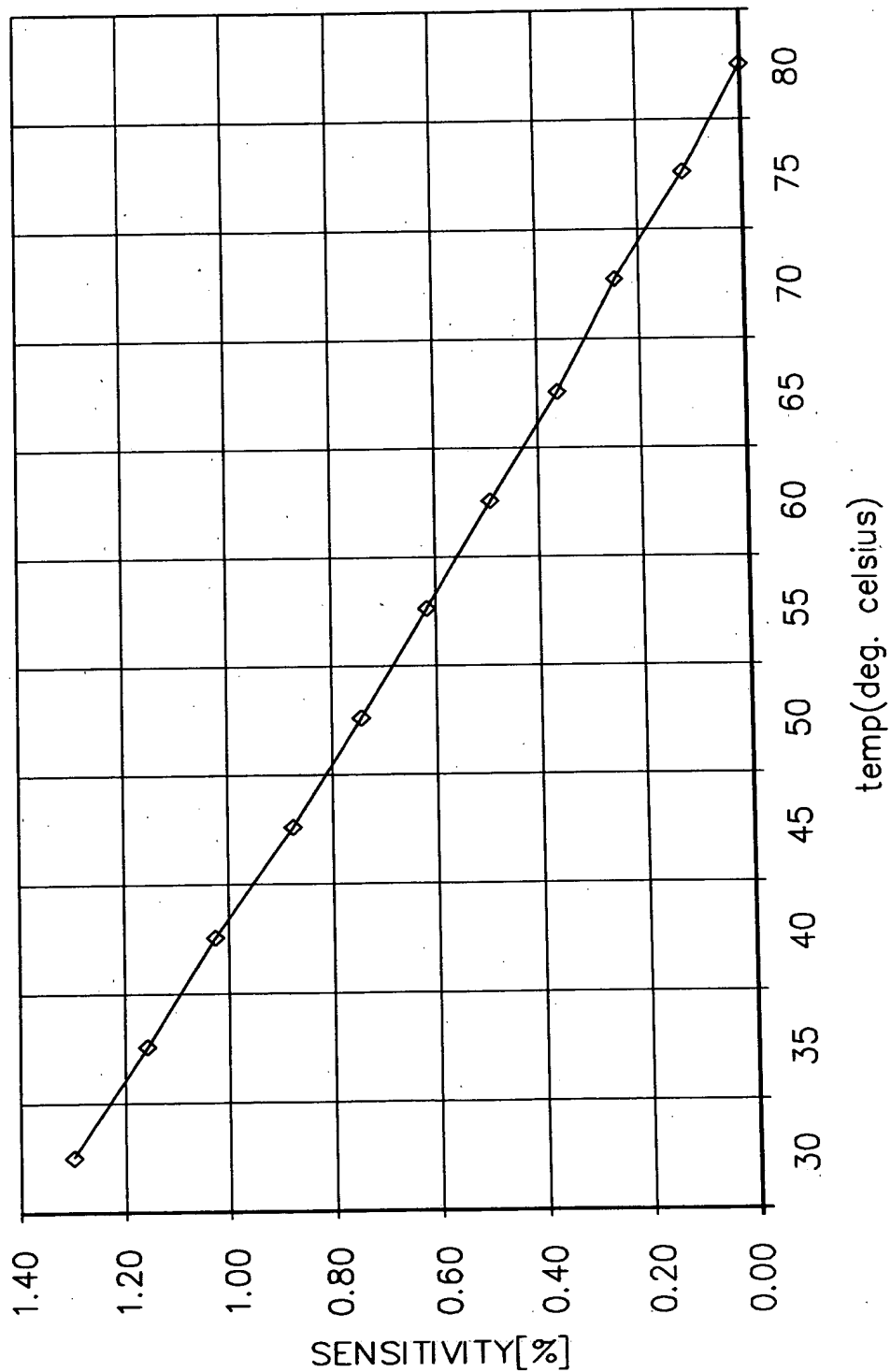


FIG. 3B

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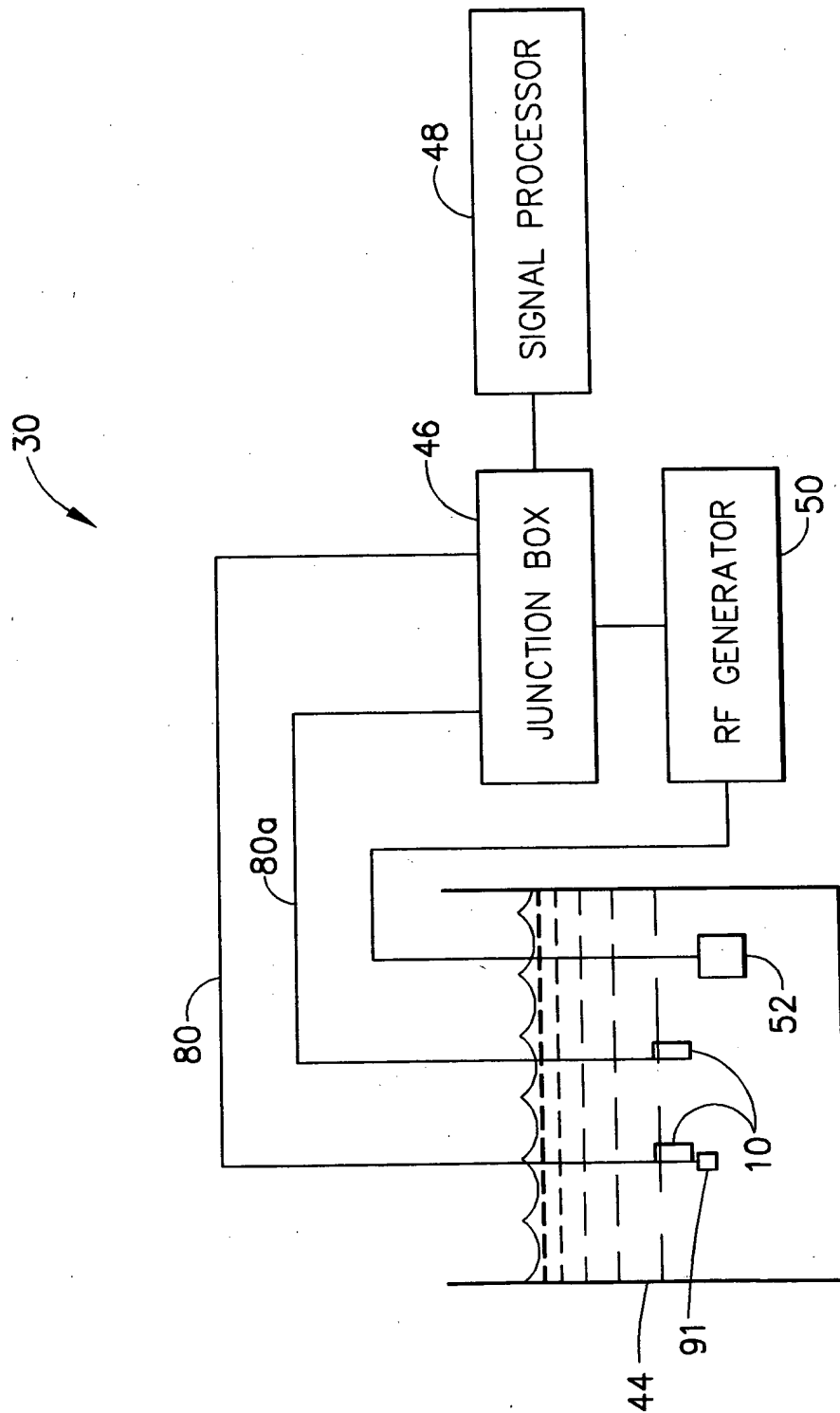


FIG. 4

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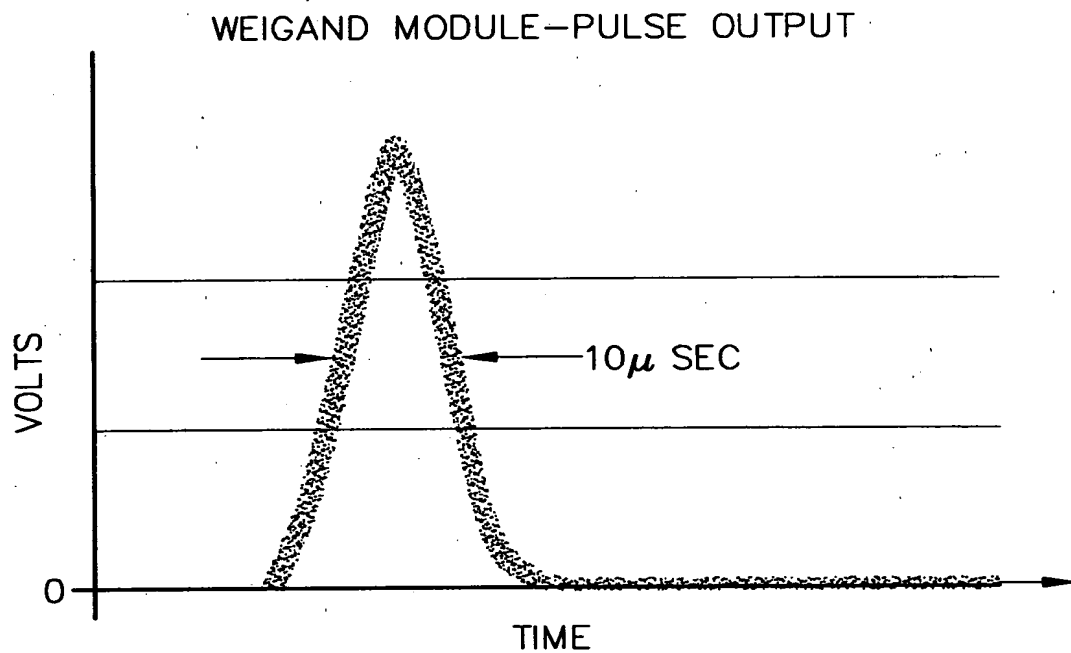


FIG. 5

MEDICAL DEVICE WITH POSITION SENSOR HAVING ACCURACY AT HIGH TEMPERATURES

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REGRESSING HEAT EXPERIMENT

	1		2		3		4	
	sensitivity	resistance	sensitivity	resistance	sensitivity	resistance	sensitivity	resistance
30	2.6290	1.39	2.3925	1.30	2.4537	1.31	2.6864	1.26
35	2.6327	1.25	2.3958	1.18	2.4567	1.18	2.6896	1.14
40	2.6356	1.13	2.3990	1.03	2.4598	1.06	2.8728	1.03
45	2.6390	1.00	2.4025	0.86	2.4632	0.92	2.8765	0.90
50	2.6419	0.89	2.4057	0.74	2.4670	0.76	2.8801	0.77
55	2.6457	0.75	2.4087	0.62	2.4705	0.62	2.8838	0.64
60	2.6489	0.63	2.4116	0.50	2.4744	0.45	2.8875	0.52
65	2.6519	0.51	2.4148	0.36	2.4774	0.34	2.8913	0.38
70	2.6567	0.37	2.4176	0.25	2.4799	0.24	2.8952	0.25
75	2.6599	0.21	2.4207	0.12	2.4833	0.10	2.8986	0.13
80	2.6555	0.00	2.4236	0.00	2.4859	0.00	2.9024	0.00
slope	-0.0266	-0.3165	-0.0250	-0.3233	-0.0289	-0.3305	-0.0254	-0.3279

	5		6		7		8	
	sensitivity	resistance	sensitivity	resistance	sensitivity	resistance	sensitivity	resistance
30	3.3480	1.00	2.4057	1.25	2.4290	1.32	2.5002	1.11
35	3.3506	0.92	2.4061	1.15	2.4319	1.20	2.5029	1.00
40	3.3533	0.84	2.4108	1.04	2.4356	1.05	2.5053	0.91
45	3.3568	0.74	2.4141	0.90	2.4387	0.92	2.5070	0.84
50	3.3605	0.62	2.4157	0.79	2.4428	0.75	2.5093	0.75
55	3.3642	0.51	2.4196	0.66	2.4452	0.61	2.5134	0.58
60	3.3674	0.42	2.4232	0.52	2.4494	0.48	2.5157	0.49
65	3.3708	0.32	2.4265	0.38	2.4516	0.39	2.5168	0.45
70	3.3749	0.20	2.4293	0.27	2.4546	0.25	2.5215	0.26
75	3.3780	0.10	2.4326	0.13	2.4580	0.13	2.5247	0.13
80	3.3815	0.00	2.4358	0.00	2.4511	0.00	2.5280	0.00
slope	-0.205	-0.3124	-0.0253	-0.2934	-0.0266	-0.5271	-0.0219	-0.3069

FIG. 6